hp professional line e-pc

hp e-pc 40

professional line

global, stable, flexible PCs to reduce lifecycle cost

Stable PCs designed with the ultimate choice in configuration flexibility and performance. Innovative features and tools that let you reduce PC lifecycle cost through comprehensive deployment, management and support solutions.

- **easy to deploy**
  With long product cycles, stable software images, tools and services to centrally deploy your PCs and e-pcs, HP professional PCs help you reduce workload and cost of deployment.
- **easy to manage**
  Every professional PC from HP comes with HP Toptools to let you manage HP and non HP PCs plus servers, printers and more. Combining the built-in manageability of HP professional PCs with HP Toptools allow you to use fewer IT resources to manage more PCs. It complements, and integrates with, other network and service management solutions such as HP Openview and Microsoft SMS.
- **easy to support**
  HP professional line PCs are not only serviceable, they help you increase uptime and keep support costs under control.

e-pc 40: PC re-invented for lowest TCO

With the e-pc 40, HP has re-invented the desktop PC as a smaller, simpler and more reliable device to further reduce Total Cost of Ownership and improve user comfort.

- small, silent, stylish

  About the size of a dictionary, the e-pc 40 fits almost anywhere. Its versatility and low noise optimizes your working comfort.
- reliability, simplified parts replacement and control

  The HP e-pc 40 is simpler than a classic PC. Fewer components means fewer problems; it reduces the average failure risk by 35%. With only four modules – memory, hard disk drive, system chassis and external power supply – the innovative design of the e-pc 40 brings a high level of serviceability resulting in reduced downtime. In addition to this, it is simple to transport and stock because of its small size and weight. The HP e-pc 40 also prevents unauthorized hardware changes, and with its unique Port Control System you can manage the addition or removal of connected devices.

at a glance

new technology highlights

- Choice of processing power:
  - Intel® Celeron™ 900 MHz, 950 MHz, 1 GHz or 1.1 GHz processor with 128 KB level-2 integrated cache on a 100 MHz front side bus
- 64, 128 or 256 MB SDRAM memory at 133 MHz, expandable to 512 MB maximum, 2 memory slots
- Integrated Intel 815E Direct AGP graphics for 2D and 3D graphics
- Integrated Intel 10BT/100TX LAN
- 16-bit stereo full duplex integrated sound
- Choice of hard disk drive:
  - 20 GB (5400 rpm), Ultra ATA/100 SMART II or
  - 20 GB (7200rpm), Ultra ATA/100 SMART II
- Optical storage device:
  - 24X Max-speed slim CD-ROM, or
- Choice of operating systems:
  - Microsoft Windows® 2000 Professional
  - Microsoft Windows® 98 Second Edition
  - Microsoft Windows NT® Workstation 4.0
  - Linux-Mandrake 8.0
  - Windows XP Ready PC* Built on Microsoft Windows® 2000 and ready for Windows® XP[1]
- Linux Enabled:
  - Certified by Linuxcare
  - Caldera, Mandrake, RedHat, SuSE, TurboLinux

[1] This PC meets the minimum hardware requirements to run Microsoft® Windows® XP. Hardware drivers, if necessary, are available from hewlett packard upon the release of Windows® XP.

pc system features

package	▪ Ultra-small, desk space-saving desktop package ▪ Sealed and secured package with HP locking mechanism ▪ HP Port Control System ▪ Easy hard disk drive replacement ▪ External AC Adaptor: DC 12V 4500mA, DC 19V 2950mA,100-240VAC 50/60Hz
port control system	▪ Ergonomic cable management ▪ Protection against theft of peripherals ▪ No out of control peripheral additions ▪ Lockable
processor	▪ Choice of processors: - Intel® Celeron™ 900 MHz, 950 MHz, 1 GHz, 1.1 GHz with 100 MHz bus speed
chipset	▪ Intel 815E chipset with 100 MHz system bus, includes Advanced Configuration and Power Management (ACPI)
cache	▪ Intel® Celeron™ processor models: 128 KB level-2 integrated cache
memory	▪ 64, 128 or 256 MB 133 MHz Synchronous DRAM (non-ECC) standard (PC 133 specification): - Expandable to 512 MB through two memory sockets - Auto-detection of memory modules via serial presence detect (SPD)
hard disk drive & controller	▪ Choice of 20 GB hard disk drives: - 5400 or 7200 rpm - UATA / 100 interface - SMART II (self-monitoring analysis and reporting technology) ▪ PCI Bus Master Ultra ATA controller: - Support for Ultra ATA/100, PIO (up to Mode 4), DMA Mode 2, and Ultra DMA Mode
optical storage	▪ HP 24X Max-speed Slim IDE CD-ROM drive
audio subsystem	▪ Integrated Analog Devices AD1885 AC '97 codec Audio ▪ 16-bit stereo audio recording and playback ▪ Full-duplex audio ▪ 92 dB (A-weighted) signal-to-noise ratio (PC-D-A) ▪ External connectors for microphone, stereo input and stereo output for amplified speakers or 32 ohms headphone ▪ Optional headphones ▪ Audio drivers, including Windows® 2000 Professional, Windows NT® Workstation 4.0, Windows® 98 Second Edition are available from the HP desktop PC support web site at: http://www.support.vectra.hp.com

pc system features (continued…)

built-in i/o	▪ One 25-pin parallel port (ECP/EPP bi-directional Centronics supporting IEEE 1284) ▪ One 9-pin serial ports (16550 UART) ▪ Two PS/2 connectors for keyboard and mouse (Mini-DIN) ▪ Four Universal Serial Bus (USB) ports for easy reconfiguration, attachment, and hot swapping of external peripherals (two in front S/W secured, two in rear) ▪ One 15-pin VGA connector on system board ▪ Audio ports (stereo-in, stereo-out, microphone-in) ▪ One RJ-45 Ethernet port (10/100 TX)
keyboard	▪ Standard PS2 keyboard
mouse	▪ PS/2 scrolling mouse
upgradeability	▪ BIOS in flash EEPROM for convenient BIOS upgrades ▪ Memory upgradeable using SDRAM-133 MHz non-ECC DIMMs
hp e-diagtools	▪ Available by pressing F8 after system boot ▪ Pre-boot diagnostic ▪ Full system diagnostics ▪ Online BIOS upgrades ▪ Instant Support tuner preloaded

Intel 815E integrated graphics

video graphics	**Intel® 815E integrated graphics chipset:** ▪ basic 2D/3D ▪ Direct AGP ▪ Dynamic Video Memory technology ▪ 230 MHz RAMDAC ▪ DDC2B support for Plug-&-Play detection of monitor ▪ basic DVD/MPEG2 Playback
graphics memory	▪ Local video memory: 8 to 13 MB according OS and memory size - 11 MB reserved if 64 MB base memory and Windows® 98 Second Edition - 8 MB reserved if 64 MB base memory and Windows® 2000 Professional or Windows NT® Workstation 4.0 - 11 MB reserved if system memory equal or higher128 MB and Windows® 2000 Professional or Windows NT® Workstation 4.0 - 13 MB reserved if system memory equal or higher 128 MB and Windows® 98 Second Edition ▪ Dynamic allocation of system memory from 8 to 13 MB
available graphics drivers	▪ Windows® 2000 Professional, Windows NT® Workstation 4.0, Windows® 98 Second Edition ▪ Drivers may be preloaded or available from HP desktop PC support web site: http://www.hp.com/go/vectrasupport

maximum resolutions

HP ergonomic modes support these non-interlaced resolutions for Windows® 2000 Professional, Windows NT® Workstation 4.0, and Windows® 98 Second Edition:

resolutions	**256 colors (8-bit)**	**64K colors (16-bit)**	**16.7M colors (24-bit)**
640 x 480	60–85 Hz	60–85 Hz	60–85 Hz
800 x 600	60–85 Hz	60–85 Hz	60–85 Hz
1024 x 768	60–85 Hz	60–85 Hz	60–85 Hz
1152 x 864	60–85 Hz	60–85 Hz	60–85 Hz
1280 x 1024	60–85 Hz	60–85 Hz	60–85 Hz
1600 x 1200	60–75 Hz		

software

operating system	▪ **HP supported operating systems:** Microsoft Windows® 2000 Professional, Windows NT® Workstation 4.0, Windows® 98 Second Edition Windows XP Ready PC*[1] ▪ **Other certified operating systems:** Novell Client certification for Microsoft Windows® 2000 Professional, Windows NT® Workstation 4.0 and Windows® 98, Linux distributions: Caldera, Mandrake, RedHat, SuSe, TurboLinux ▪ More information about the Linux operating system is available on the HP desktop PC web site: http://www.hp.com/desktops/linux
provided software	▪ **Operating system:** Microsoft Windows® 2000 Professional or Windows NT® Workstation 4.0, or Microsoft Windows® 98 Second Edition, depending on model.* ▪ **Applications :** - HP Toptools agent - HP e-Diagtools hardware diagnostic solution - HP Instant Support Tuner - Every unit includes in the box: ➢ HP image creation and recovery CD-ROM (OS installation and hard disk preparation) ➢ HP image library and diagnostics CD-ROM (drivers and utilities installation and diagnostics) * *Note:* For Windows® 98 models (when applicable), Windows NT® Workstation 4.0 and Windows® 2000 models (when applicable): end user must make one-time selection between Windows® 98, Windows® 2000 and Windows NT® Workstation 4.0. If end user desires rejected product(s) after selection is made, end user must acquire and pay for rejected product(s) separately
software available from the web	▪ HP Toptools device manager http://www.hp.com/toptools

communication features

Ethernet lan interface	▪ Integrated Intel Pro 100 VE Network connection ▪ 10 Base T and 100 Base-TX physical layer capabilities ▪ Wake on LAN support: Remote Power On; Remote Power Off, Remote Wake-up
remote booting	▪ multiprotocol firmware to enable pre-boot capabilities in a networked environment: - Included in the BIOS - Enables remote automated installation and pre-OS desktop management - Supports multiple protocols (PXE 2.0,and RPL 2.71) - Compliant with today's industry standards: Wired for Management (WfM) 2.0 , PCI 2.2
available lan drivers	▪ Windows® 2000 Professional, Windows NT® Workstation 4.0, Windows® 98 Second Edition ▪ Latest LAN information and drivers available from HP desktop PC support web site http://www.support.vectra.hp.com

[1] This PC meets the minimum hardware requirements to run Microsoft® Windows® XP. Hardware drivers, if necessary, are available from hewlett packard upon the release of Windows® XP.

ergonomics

ergonomic and environmental design

- Video modes supporting non-interlaced resolutions up to 1600 × 1200 at ergonomic refresh rates up to 85Hz
- EPA ENERGY STAR® certified*
- TUV-GS Mark
- Energy-saving variable-speed fan for temperature control
- Large selection of MPRII—and EPA ENERGY STAR®—certified displays
- CFC-free manufacturing process; single plastic for easy recycling
- HP energy saver
- Less then 7W power consumption in Stand By mode (called Suspend to Ram (S3) for Windows 2000 and Windows 98)
- Optimized desk-space-saving desktop package
- Control panel keeps user aware of PC status:
  - On/Off switch integrated in the surface to avoid accidental power-off
  - On/Off green LED (blinks in sleep mode)
  - Hard disk drive activity LED

* *Note:* As an ENERGY STAR partner, HP has determined that this product meets the ENERGY STAR guidelines for energy efficiency (on appropriate models)

The environmental profile of the product is available at http://www.hp.com/hpinfo/community/environment/desktop.htm

regulatory compliance and approvals

safety approvals

- C-UL 1950 3rd edition listed
- NOM-019-SCFI-1993
- IRAM
- IEC 60950: 1991 +A1 +A2 +A3 +A4
- EN 60950: 1992 +A1 +A2 +A3 +A4 +A11
- Low Voltage Directive 73/23/EEC, both amended by the Directive 93/68/EEC
- TÜV-GS Mark
- PCBC
- GOST
- MITI
- PSB
- CCIB
- IAA
- AS/NZS3260

electromagnetic compatibility

- FCC part 15 class B
- ICES-003/NMB-003 Class B
- EMC Directive 89/336/EEC amended by Directive 93/68/EEC
- CISPR 22: 1997 Class B, EN55022: 1998
- CISPR 24: 1997 Class B, EN55024: 1998
- IEC/EN 61000-3-2:1995 + A14
- VCCI Class B
- BSMI
- RRL
- C-TICK

service and support

warranty

- A one-year next-business-day on-site international hardware warranty and a full range of flexible warranty options and support packs

support

24 hours a day, 7 days a week, there is always a way to reach HP support:

- Web technical support including BIOS and driver updates, white papers and additional product information
- HP one-year free hardware diagnostic phone support (24 hours a day, 7 days a week in U.S. Standard business hours in other regions)

For more information, go to http://www.support.vectra.hp.com and click on Assistance to find the telephone number of the HP customer care center near you

e-pc 40 specifications

physical characteristics		metric	non-metric
system	dimensions (without keyboard)	W x D x H: 9.5 cm x 28 cm x 25 cm	W x D x H: 3.7in. x 11.0 in. x 9.8 in.
	weight (without keyboard)	4.5 kg	9.9 lb
keyboard	dimensions (standard)	W x D x H: 46.4 cm x 17.8 cm x 3.3 cm (5.1 cm standing)	W x D x H: 18.3 in. x 7.0 in. x 1.3 in. (2.0 in. standing)

environmental conditions		metric	non-metric
temperature	operating	10° to 35° C	50° to 95° F
	non-operating	-40° to 70° C	-40° to 158° F
humidity	operating	15% to 80% RH	15% to 80% RH
	non-operating	8% to 85% RH (noncondensing) at 40°C	8% to 85% RH (noncondensing) at 104°F

electrical characteristics

power supply	input voltage	100-240 VAC
	frequency	50/60Hz

acoustic emission

sound level

pressure	Idle Typical LpA	LpA ≤ 25dB(A)
power	Idle Typical LwA	LwA ≤ 3.3 B(A) (33dBA)

e-pc 40 accessories

e-pc 40 companions

P1966A	HP e-pc 40 All-in-2 integration kit
P2290A	HP e-pc 40 mounting bracket
P5911A	HP cordless keyboard and mouse Kit[1]

memory

P1536A	HP 64MB (1 x 64MB), SDRAM-133MHz non-ECC DIMM
P1537A	HP 128MB (1 x 128MB), SDRAM-133MHz non-ECC DIMM
P1538A	HP 256MB (1 x 256MB), SDRAM-133MHz ECC DIMM

And bulk pack of 10 units P5100A, P5101A, P1502A

hard disk drives

P1542A	HP 80.0GB 7200rpm Ultra ATA/100
P1541A	HP 20.0GB 7200rpm Ultra ATA/100

communication accessories

P1980A	HP 802.11b USB wireless LAN
P1981A	HP 802.11b wireless LAN access point for SMB
F2135A	HP 802.11b wireless LAN access point for Corporate
P1979A	HP External USB e-Modem[1]

optical – removal storage

D9510A	HP USB external Floppy disk drive
C4505A	HP USB external CD-RW drive (CPSS)

audio and multimedia

P1534A	HP amplified Speakers 9.6-watt RMS
P1968A	HP headset with microphone
P1978A	HP external USB web camera
P1977A	HP external USB Compact Flash reader
P1535A	HP multimedia monitor base (audio speaker in CRT base)

input devices

C4735B	HP PS2 Windows Keyboard
C4768A	HP USB Internet Keyboard
C4736B	HP PS2 Scrolling Mouse
C4766A	HP USB Optical Mouse

security accessories

D6655C	HP Master Pass Key system kit
D6658B	HP Spare Master Pass Key (x1)
F1645A	HP Kensingston Lock

[1] Available in selected countries only

recommended hp monitors for hp e-pc 40

Detailed information is available at: http://www.hp.com/go/monitors

	commercial Name	hp P/N	viewable area / vis*	dot/pixel pitch	recommended resolution / Max Resolution (@xxHz)	horizontal frequency
CRT Monitors						
15″ Essential	hp56	P4795A	13.8-in	0.28mm	800x600 @ 85Hz 1024x768@60Hz	30-54kHz
17″ Essential	hp72	D8904A D8905A	15.9-in	0.27mm	1024x768 @ 85Hz 1280x1024 @60Hz	30-70kHz
17″ Professional (Flat CRT)	hp p720	D8907A	16.0-in	0.25mm	1024x768 @ 85Hz 1280x1024 @ 75Hz	30-85kHz
Flat Panel Monitors (LCD)						
15″ Professional	L1520	D5063A D5063M[1]	15.0-in	N/A	1024x768 @60Hz 1024x768 @ 75Hz	N/A
17″ Professional	L1720	D5064M[1]	17.0-in	N/A	1280x1024 @60Hz 1600x1200 @ 60Hz	N/A

[1] M means: Multimedia capability: integrated speakers, microphone and headphone jack
Portrait/Landscape capability

stable & easy to deploy

software image stability

Adapt your standard software image more quickly and less frequently on HP professional line PCs

image creation and recovery cd-rom	▪ HP professional line PCs come with an image creation and recovery CD-ROM in the box. This CD-ROM allows you to recover your pre-installed software: - Reload the operating system or change your operating system (from Windows® XP to Windows® 2000) - Configure the hard disk drive partitions (FAT 16, FAT 32, or NTFS) - Create HP utility partition for HP e-Diagtools re-installation
image library and diagnostics cd-rom	▪ HP professional PCs come with an image library and diagnostics CD-ROM in the box. The HP e-pc 40 can be booted from this CD-ROM in order to run HP e-Diagtools hardware system diagnostics. ▪ The image library and diagnostics CD-ROM also contains HP drivers and system software pre-packaged for unattended installation. These packages can be used locally after an operating system installation (e.g. done with the image creation and recovery CD-ROM) or distributed with Microsoft scripting tools. An administrator version of image library CD-ROM is available from the HP web with pre-packed drivers for distribution with Microsoft SMS - To order free the standard HP image library CD-ROM for HP e-pc 40, go to: http://www.hp.com/go/vectrasupport - To order free the standard HP image library CD-ROM administrator version for HP e-pc 40, go to: http://www.hp.com/desktops/vectra/stability and check the section "simplify your software image" - To get a complete overview on how to use those CD-ROMs to install/re-install your software go to: http://www.support.vectra.hp.com/vectrasupport/level4/38vfa182en/38vfa182en.html
long life cycle	▪ 9 months minimum but often more than 12 months.
image stability program	▪ Tightly controls PC hardware revisions, enabling you to create a single software image and avoid changes during the lifecylcle of the PC.
proactive notification	▪ Informs you of the changes by e-mail, letting you decide whether to upgrade your PCs.
customer image testing service	▪ HP offers a fee-based customer image testing service. The service provides consulting on image build and full image analysis prior to PC deployment. The qualified image is thereafter tested at each hardware roll providing the customer with customized notification and if necessary image patching.

More details on HP software stability can be obtained at: http://www.hp.com/desktops/vectra/stability/

For more information on the customer image testing service, please ask your local HP representative.

software image deployment solution

rembo auto deploy

- To easily deploy hundreds of HP PCs and laptops simultaneously, HP recommends Rembo Auto Deploy (www.rembo.com). Rembo Auto Deploy is an innovative software deployment solution based on PXE remote boot industry standard.
- It offers fully automated hard disk software image installation, with the unique capability to dynamically choose the operating system, the business applications and the end user data parameters you want to use. HP PCs and laptops installed by Rembo Auto Deploy also benefit from a customized recovery CD-ROM that mirrors their deployed hard disk software image. If your software setup is still manual, too slow, and missing flexibility, Rembo Auto Deploy is your solution of choice.
- HP uniquely provides "HP rapid deployment solution" services based on Rembo Auto Deploy to help you re-engineer your IT process of staging new PCs (HP consulting services) or update your existing installed based of PCs (HP outsourcing selective services).
- HP is actually using Rembo Auto Deploy to deploy the hard disk software images of its 86,000 employees PCs worldwide and builds its service proficiency on its own IT experience. Rembo Auto Deploy can be also licensed directly from www.rembo.com. Check out what we have done for others and that we could do for you with Rembo Auto Deploy at: http://www.hp.com/hpinfo/newsroom/feature_stories/easyeverything.htm

rembo auto backup

- To instantly backup and restore your HP PC and laptop software, HP recommends Rembo Auto Backup (www.rembo.com). Rembo Auto Backup is a new, innovative and smart software backup and recovery solution, ran locally from a client PC hard disk. Backup operation of PCs can be managed remotely and securely, with incremental backup points, and IT control over end user usage. With Rembo Auto Backup the complete process of backing up and restoring does not require any manual intervention.
- HP uniquely provides services based on Rembo Auto Backup to help you re-engineer your IT process of supporting and operating new or existing PCs (those services are part of "HP rapid deployment solution" – see above). HP is currently providing the Rembo Auto Backup solution to its 86,000 worldwide employees to use as their standard software recovery method, and to build its service proficiency on its own IT experience. Rembo Auto Backup can be also licensed directly from (www.rembo.com). Check out what we have done for others and that we could do for you with Rembo Auto Backup at: http://www.hp.com/hpinfo/newsroom/feature_stories/easyeverything.htm

easy to manage

HP corporate PCs with HP Toptools provide the inventory information you need, and the most efficient way to decrease desk-side visits.

inventory management

Remote and central inventory
- Auto-discovery of devices
- Automated collection of inventory
- Inventory database which allows for creation of custom queries & reports by device type and group
- PC search and selection
- Standard reports (including asset location, configuration)
- Report of Microsoft Windows® 2000 Professional and Windows XP ready PCs (this report includes PCs that match the minimum hardware requirements and are certified)
- Access to detailed configuration information
- Customizable asset string
- Support for larger environments (up to 35,000 nodes per device manager server)

configuration management

Remote boot control
- Scheduled system reboot
- Scheduled system power-off
- Scheduled system power-on

Remote and central system software updates
- HP Toptools agent deployment and update (agent deployment is only available with Windows NT® Workstation 4.0, Windows® 2000 Professional or Windows XP, within the same Windows NT® domain)
- BIOS update
- Drivers update (video, hard disk drive, and LAN card)
- Drivers, BIOS & utilities revision management
- Selected HP Laserjet printers installation
- Hardware diagnostics deployment and update (HP e-Diagtools)

File importing/password administration
- Third-party trap import/configuration
- IP/MAC address file importing
- Enhanced HP Toptools user password administration

compliance with industry standards

Desktop Management Interface (DMI)
- Provided with Toptools agent for Windows® 9x and Windows NT® Workstation 4.0 models. HP professional line PCs have the most comprehensive DMI implementation in the industry.
  - DMI 2.0 compliant.
  - HP DMI instrumentation for PC system information, monitor, LAN cards, security, devices, drivers, bios,
  - end-user information and more ...
  - Support for all DMI management applications including Intel LANDesk, McAfee ZAC and more ...
- HP Toptools can uniquely:
  - Power on DMI on HP and non-HP PCs
  - Read DMI information from HP and non-HP PCs
  - Report DMI alerts from HP and non-HP PCs

Windows® Management Interface (WMI)
- Provided with Toptools agent for Windows® 2000 and Windows XP models. HP professional line PCs have the industry leading WMI implementation:
  - Full WMI instrumentation
  - Common Toptools agent and WMI instrumentation across Vectra, Omnibook and e-pc 40.
- First to implement WMI instrumentation for Intel® IPSEC LAN card adaptors, HP Toptools can uniquely:-
  - Power on WMI on HP and non-HP PCs
  - Read WMI information from HP and non-HP PCs

Wired for Management (WfM)
- HP professional line PCs are WfM 2.0 ready:
  - Provide easy remote power-on (RPO/Power on Lan), remote power-off, and remote reboot.
- HP professional line PCs are PXE 2.0 ready:
  - Provide easy Windows 2000 Workstation software deployment with Windows® 2000 remote installation service.

- Accessibility
- Toptools WMI agent is compatible with Windows 2000 Narrator software

easy to manage (continued…)

performance management/ alerts

- Resource bottleneck analysis
- System Performance Advisor
- CPU, memory, and disk I/O performance monitoring and trend analysis for Windows NT® Workstation 4.0, Windows® 2000, and Windows® 98 Second Edition systems
- PC remote control (Symantec pcANYWHERE trial version)
- Custom reports and tables
- Enhanced notification actions and action triggers
- Most frequent alerts report
- Enhanced action-on-alerts via email
- Integration with Instant Support to provide class issues alert and report

hp toptools bridges

- The HP Toptools bridges enable full integration with complementary applications. Bridges are available with the following applications:
  - HP Openview NNM (Windows NT® Workstation 4.0)
  - HP Openview NNM (HP-UX)
  - HP Openview NNM (Solaris)
  - Microsoft SMS 2.0/2.01
  - IBM Tivoli NetView (Windows NT® Workstation 4.0)
  - IBM Tivoli Enterprise Management (Windows NT® Workstation 4.0, HP-UX, Solaris)
  - Computer Associates Unicenter TNG (Windows NT® Workstation 4.0)
  - For more information about HP Toptools value pack and HP Toptools bridges, go to: http://www.hp.com/go/toptools

More details on HP PCs manageability and HP Toptools can be obtained at: http://www.hp.com/go/pcmanageability

easy to support

HP corporate PCs are easy to diagnose, troubleshoot and service, greatly empowering your help desk resources and providing a better user experience.

fault management	**Fault diagnostics** ▪ HP e-Diagtools (local and remote) ▪ On-line video and LAN cards (3Com, Intel, Matrox) **Remote and local alert reporting** ▪ Power-On Self-Test (POST) ▪ Chassis intrusion detection ▪ IDE hard disk drive SMART failure warning **Resources monitoring** ▪ CPU ▪ Memory ▪ Hard disk drives ▪ Networking card (requires SNMP services to be installed)
e-diagtools	**HP e-Diagtools hardware diagnostics solution** ▪ Provides preboot diagnostics, system configuration diagnostics and a complete test suite of the system hardware components ▪ Some errors found by e-Diagtools can be transformed into a sound signal emitted by the pre-boot diagnostic chip and sent over a phone line to your HP support provider for immediate troubleshooting ▪ Immediate troubleshooting of e-Diagtools error codes can also manually or automatically (through HP virtual call assistant) be accessed from http://www.hp.com/desktops/diagtools ▪ Test results and system configuration are stored in a support ticket file for further access from your HP support provider if necessary ▪ e-Diagtools can be remotely launched by HP Toptools device management software (requires HP Toptools agent on your system) or HP Instant Support web portal or on HP support specialist request
ease of setup and servicing	**Easy to open, repair, and expand, with built-in intuitiveness** ▪ Features include: - Documentation – HP e-pc 40 Quick start card included - Cover—tool-free, intuitive removal - System board—direct access to upgradeable memory slots - Hard disk drive—easy removal, direct access, tool-free removal of hard disk drive cage - Color-coded connectors for simplified PC assembly ▪ Hassle-free security with HP master pass key system—chassis lock with configurable master setting (optional) ▪ BIOS stored in flash EEPROM for fast and easy upgrades ▪ Setup program in flash ROM ▪ Automatic detection of major components at power-on ▪ Power-On Self-Test (POST) displays start up errors, suggests solutions ▪ All models are local area network (LAN) ready for easy integration into the network ▪ HP e-Diagtools: fast, easy-to-use hardware diagnostics for quick system troubleshooting ▪ LAN hardware diagnostics
instant support	HP Instant Support automates and speeds the resolution of computing problems, freeing you from time-consuming diagnostic chores and allowing you to focus on more important business activities. Featuring web-based diagnosis and resolution capabilities, HP instant support can be personalized to meet your business needs and deliver the support experience that works for you. For more information, go to: http://www.hp.com/go/instantsupport

More details on HP PCs supportability can be obtained at: http://www.hp.com/go/pcsupportability

security ready

HP corporate PCs reduce security risks.

physical security	▪ Boot Block BIOS Flash hardware protected ▪ HP physical security to protect PCs from theft: - Optional HP master pass key lock (lock must be purchased separately) - Kensington lock provision - Two BIOS-level passwords - Chassis Intrusion detection
security management	**Remote and central system boot configuration** ▪ Enable/Disable start from hard disk ▪ Enable/Disable start from floppy disk ▪ Enable/Disable start from CD-ROM drive ▪ Enable/Disable start from network drive ▪ Enable/Disable Remote Power On and Wake on LAN **Remote and central security configuration** ▪ Enable/Disable floppy disk drive ▪ Enable/Disable writing on floppy disk drive ▪ Enable/Disable CD-ROM, DVD-ROM, CD-RW drives (requires Windows® 2000 Professional or Windows NT® Workstation 4.0) ▪ Enable/Disable serial and parallel ports ▪ Enable/Disable USB ports **Remote and central security control** ▪ Complete system lock ▪ System protection (power-on and reset buttons) **Remote and central security management** ▪ Enable/Disable start with keyboard locked ▪ System administrator and user password change ▪ Enable/Disable user password on power-on ▪ System SNMP community password change ▪ Report of PCs not password protected

More details on HP PCs security can be obtained at: http://www.hp.com/go/pcsecurity

Whatever your business need, HP has the monitor for you. Optimized for your HP desktop PCs, HP monitors deliver the performance you need, the quality you expect, at the right price
http://www.hp.com/go/monitors

For the latest information on HP professional line e-pcs, visit HP's World Wide Web site at:
http://www.hp.com/go/desktops

HP PCs use genuine Windows® Operating Systems.
www.microsoft.com/piracy/howtotell

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Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

All certifications may not be completed at product introduction. Please check with your HP reseller for certification status. In a continuing effort to improve the quality of our products, technical and environmental information in this document is subject to change without notice.

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